

**METHOD AND APPARATUS FOR POWER CONVERSION**  
**HAVING A FOUR-QUADRANT OUTPUT**

**ABSTRACT**

A power converter (10) operating in all four voltage-current quadrants includes an input voltage source (14), an output current independent of an output voltage and a switching arrangement (12, 16, 18, and 20) enabling an output terminal (26) to be in common with an input terminal. The output voltage can be unconstrained by an input voltage from the input voltage source.